

## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical  
Information Center (STIC) no errors detected.**

Application Serial Number: 10/687,204C

Source: 1FWO

Date Processed by STIC: 3/29/05

# ***ENTERED***



IFWO

## RAW SEQUENCE LISTING

DATE: 03/29/2005

PATENT APPLICATION: US/10/687,204C

TIME: 11:09:06

Input Set : A:\13-118 Seq list Final 3.22.txt

Output Set: N:\CRF4\03292005\J687204C.raw

```

3 <110> APPLICANT: Boehringer Ingelheim International GmbH
5 <120> TITLE OF INVENTION: Composition for the Treatment of
6   Infection by Flaviviridae Viruses
9 <130> FILE REFERENCE: 13/118
11 <140> CURRENT APPLICATION NUMBER: US 10/687,204C
12 <141> CURRENT FILING DATE: 2003-10-16
14 <150> PRIOR APPLICATION NUMBER: US 60/442,769
15 <151> PRIOR FILING DATE: 2003-01-27
17 <150> PRIOR APPLICATION NUMBER: US 60/421,900
18 <151> PRIOR FILING DATE: 2002-10-29
20 <160> NUMBER OF SEQ ID NOS: 16
22 <170> SOFTWARE: FastSEQ for Windows Version 4.0
24 <210> SEQ ID NO: 1
25 <211> LENGTH: 28
26 <212> TYPE: DNA
27 <213> ORGANISM: Artificial Sequence
29 <220> FEATURE:
30 <223> OTHER INFORMATION: Primer
32 <400> SEQUENCE: 1
33   ctcggatccg gcgcccatca cggcctac                28
35 <210> SEQ ID NO: 2
36 <211> LENGTH: 33
37 <212> TYPE: DNA
38 <213> ORGANISM: Artificial Sequence
40 <220> FEATURE:
41 <223> OTHER INFORMATION: primer
43 <400> SEQUENCE: 2
44   ctctctagat cagcactctt ccatttcacg gaa          33
46 <210> SEQ ID NO: 3
47 <211> LENGTH: 36
48 <212> TYPE: DNA
49 <213> ORGANISM: Artificial Sequence
51 <220> FEATURE:
52 <223> OTHER INFORMATION: primer
54 <400> SEQUENCE: 3
55   ctctctagat cagcactctt ccatttcacg gaactc       36
57 <210> SEQ ID NO: 4
58 <211> LENGTH: 34
59 <212> TYPE: DNA
60 <213> ORGANISM: Artificial Sequence
W--> 61 <220> FEATURE:
62 <223> OTHER INFORMATION: primer
64 <400> SEQUENCE: 4

```

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```

65 ctcggatccg gcgcccata cggcctactc ccaa                      34
67 <210> SEQ ID NO: 5
68 <211> LENGTH: 16
69 <212> TYPE: PRT
70 <213> ORGANISM: Hepatitis C Virus
72 <400> SEQUENCE: 5
73 Pro Asp Arg Glu Val Leu Tyr Arg Glu Phe Asp Glu Met Glu Glu Cys
74 1          5          10          15
77 <210> SEQ ID NO: 6
78 <211> LENGTH: 28
79 <212> TYPE: DNA
80 <213> ORGANISM: Artificial Sequence
82 <220> FEATURE:
83 <223> OTHER INFORMATION: primer
85 <400> SEQUENCE: 6
86 ctcggatccg gctcccatta ctgcttac                      28
88 <210> SEQ ID NO: 7
89 <211> LENGTH: 43
90 <212> TYPE: DNA
91 <213> ORGANISM: Artificial Sequence
93 <220> FEATURE:
94 <223> OTHER INFORMATION: primer
96 <400> SEQUENCE: 7
97 gacgcgtcga cgcggccgct cagcactctt ccatttcact gaa          43
99 <210> SEQ ID NO: 8
100 <211> LENGTH: 31
101 <212> TYPE: DNA
102 <213> ORGANISM: Artificial Sequence
104 <220> FEATURE:
105 <223> OTHER INFORMATION: primer
107 <400> SEQUENCE: 8
108 ctcggatccg gcccgatca cagcatatcg c                      31
110 <210> SEQ ID NO: 9
111 <211> LENGTH: 41
112 <212> TYPE: DNA
113 <213> ORGANISM: Artificial Sequence
115 <220> FEATURE:
116 <223> OTHER INFORMATION: primer
118 <400> SEQUENCE: 9
119 caccgctcga gtcagcattc ttccatctca tcatattggt g          41
121 <210> SEQ ID NO: 10
122 <211> LENGTH: 11
123 <212> TYPE: PRT
124 <213> ORGANISM: Artificial Sequence
126 <220> FEATURE:
127 <221> NAME/KEY: VARIANT
128 <222> LOCATION: 1, 6, 9
130 <223> OTHER INFORMATION: Asp at position 1 is linked to anthranilyl
132 <223> OTHER INFORMATION: Xaa at position 6 is aminobutyric acid [C(O)-O]

```

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Input Set : A:\13-118 Seq list Final 3.22.txt

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134 <223> OTHER INFORMATION: Xaa at position 9 is (3-nitro)tyrosine  
 136 <223> OTHER INFORMATION: Chemically Synthesized  
 W--> 138 <400> 10  
 W--> 139 Asp Asp Ile Val Pro Xaa Ala Met Xaa Thr Trp  
 140 1 5 10  
 143 <210> SEQ ID NO: 11  
 144 <211> LENGTH: 11  
 145 <212> TYPE: PRT  
 146 <213> ORGANISM: Artificial Sequence  
 148 <220> FEATURE:  
 149 <221> NAME/KEY: VARIANT  
 150 <222> LOCATION: 6  
 152 <223> OTHER INFORMATION: Xaa at position 6 is aminobutyric acid  
 154 <223> OTHER INFORMATION: Chemically Synthesized  
 W--> 156 <400> 11  
 W--> 157 Asp Asp Ile Val Pro Xaa Ala Met Tyr Thr Trp  
 158 1 5 10  
 161 <210> SEQ ID NO: 12  
 162 <211> LENGTH: 12  
 163 <212> TYPE: PRT  
 164 <213> ORGANISM: Hepatitis C Virus  
 166 <400> SEQUENCE: 12  
 167 Asp Asp Ile Val Pro Cys Ser Met Ser Tyr Thr Trp  
 168 1 5 10  
 173 <210> SEQ ID NO: 13  
 174 <211> LENGTH: 11  
 175 <212> TYPE: PRT  
 176 <213> ORGANISM: Artificial Sequence  
 W--> 177 <220> FEATURE:  
 178 <221> NAME/KEY: VARIANT  
 179 <222> LOCATION: 1, 2, 6, 9  
 181 <223> OTHER INFORMATION: Xaa is at position 1 is anthranilyl-Asp  
 183 <223> OTHER INFORMATION: Xaa at position 2 is (d)Glu  
 185 <223> OTHER INFORMATION: Xaa at position 6 is norvaline[C(O)-O]  
 187 <223> OTHER INFORMATION: Xaa at position 9 is (3-nitro)tyrosine  
 189 <223> OTHER INFORMATION: Chemically Synthesized  
 W--> 192 <400> 13  
 W--> 193 Xaa Xaa Ile Val Pro Xaa Ala Met Xaa Thr Trp  
 194 1 5 10  
 197 <210> SEQ ID NO: 14  
 198 <211> LENGTH: 30  
 199 <212> TYPE: DNA  
 200 <213> ORGANISM: Artificial Sequence  
 202 <220> FEATURE:  
 203 <223> OTHER INFORMATION: primer  
 207 <400> SEQUENCE: 14  
 208 cgcatatggc accttttacg ctgcagtgtc 30  
 210 <210> SEQ ID NO: 15  
 211 <211> LENGTH: 33

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Input Set : A:\13-118 Seq list Final 3.22.txt

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```

212 <212> TYPE: DNA
213 <213> ORGANISM: Artificial Sequence
215 <220> FEATURE:
216 <223> OTHER INFORMATION: primer
218 <400> SEQUENCE: 15
219 cgcgcgctcg agacactcct ccacgatttc ttc
221 <210> SEQ ID NO: 16
222 <211> LENGTH: 9
223 <212> TYPE: PRT
224 <213> ORGANISM: Artificial Sequence
226 <220> FEATURE:
227 <221> NAME/KEY: VARIANT
228 <222> LOCATION: 1, 3, 6, 9
230 <223> OTHER INFORMATION: Xaa at position 1 is acetylated-Asp
232 <223> OTHER INFORMATION: Xaa at position 3 is Asp (EDANS)
234 <223> OTHER INFORMATION: Xaa at position 6 is amino butyric acid [C(O)-O]
236 <223> OTHER INFORMATION: Xaa at position 9 is Lys[DABCYL]
238 <223> OTHER INFORMATION: Chemically Synthesized
W--> 240 <400> 16
W--> 241 Xaa Glu Xaa Glu Glu Xaa Ala Ser Xaa
242 1 5

```

RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/10/687,204C

DATE: 03/29/2005  
TIME: 11:09:07

Input Set : A:\13-118 Seq list Final 3.22.txt  
Output Set: N:\CRF4\03292005\J687204C.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:10; Xaa Pos. 6, 9

Seq#:11; Xaa Pos. 6

Seq#:13; Xaa Pos. 1, 2, 6, 9

Seq#:16; Xaa Pos. 1, 3, 6, 9

## VERIFICATION SUMMARY

DATE: 03/29/2005

PATENT APPLICATION: US/10/687,204C

TIME: 11:09:07

Input Set : A:\13-118 Seq list Final 3.22.txt

Output Set: N:\CRF4\03292005\J687204C.raw

L:61 M:283 W: Missing Blank Line separator, <220> field identifier  
L:138 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:10  
L:139 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:0  
L:156 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:11  
L:157 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0  
L:177 M:283 W: Missing Blank Line separator, <220> field identifier  
L:192 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:13  
L:193 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:0  
L:240 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:16  
L:241 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:0